

I CLAIM:

1. An apparatus for generating an inorganic polymer electret in a colloidal state comprising:

- (a) a first tube;
- (b) a second tube positioned substantially inside the first tube; and
- (c) flow through the first tube being substantially counter to flow through the second tube.

2. The apparatus of claim 1 further comprising at least one magnet attached to the second tube.

3. An inorganic polymer electric in a colloidal state with a particle size is between about 1 and about 200 microns.

4. The inorganic polymer electric in a colloidal state of claim 3 wherein the particle size is between about 1 and about 150 microns.

5. The inorganic polymer electric in a colloidal state of claim 3 wherein the particle size is between about 1 and about 125 microns.

6. The inorganic polymer electric in a colloidal state of claim 3 wherein the particle size is between about 1 and about 115 microns.

7. The inorganic polymer electric in a colloidal state of claim 3 wherein the particle size is between about 1 and about 110 microns.

8. An inorganic polymer electric in a colloidal state with a zeta potential between about 33 and 50 mV.

9. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 34 and 50 mV.

10. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 34 and 48 mV.

11. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 35 and 45 mV.

12. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 36 and 43 mV.

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cont.

13. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 37 and 41 mV.

14. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 37 and 39 mV.

15. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is between about 37 and 38 mV.

16. The inorganic polymer electric in a colloidal state of claim 8 wherein the zeta potential is about 37.7 mV.

17. An inorganic polymer electric in a colloidal state wherein the concentration of the inorganic polymer electric is greater than about 1,000 parts per million.

18. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 2,000 parts per million.

19. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 4,000 parts per million.

20. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 10,000 parts per million.

21. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 50,000 parts per million.

22. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 100,000 parts per million.

23. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 150,000 parts per million.

24. The inorganic polymer electric in a colloidal state of claim 17 wherein the concentration of polymer electric is greater than about 200,000 parts per million.

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